LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121718\
Data File : BM018249.D
Acq On : 17 Dec 2018 15:13
Operator : JU/SJ
Sample : J6378-11
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** P001-SD012-0612-01

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.787 | 147 | 153 | 165 | rVB | 2790761 | 3353509 | 20.22% | 3.394% |
| 2 | 4.869 | 331 | 337 | 345 | rBV | 379612 | 555752 | 3.35% | 0.562% |
| 3 | 5.051 | 363 | 368 | 374 | rVB | 921687 | 1235220 | 7.45% | 1.250% |
| 4 | 5.128 | 374 | 381 | 385 | rBV | 2738024 | 3866488 | 23.32% | 3.913% |
| 5 | 5.187 | 385 | 391 | 401 | rVB | 9505053 | 16583270 | 100.00% | 16.783% |
| 6 | 5.540 | 443 | 451 | 459 | rBV | 2722394 | 3805790 | 22.95% | 3.852% |
| 7 | 6.592 | 624 | 630 | 631 | rBV | 192775 | 254649 | 1.54% | 0.258% |
| 8 | 6.622 | 631 | 635 | 642 | rVV | 1023995 | 1568733 | 9.46% | 1.588% |
| 9 | 6.698 | 642 | 648 | 664 | rVB | 2753203 | 4698108 | 28.33% | 4.755% |
| 10 | 7.034 | 698 | 705 | 713 | rBV | 2901286 | 4540315 | 27.38% | 4.595% |
| 11 | 7.139 | 719 | 723 | 730 | rVB | 470883 | 671756 | 4.05% | 0.680% |
| 12 | 7.492 | 778 | 783 | 786 | rBV | 516699 | 778527 | 4.69% | 0.788% |
| 13 | 7.528 | 786 | 789 | 796 | rVB | 789848 | 1149057 | 6.93% | 1.163% |
| 14 | 7.616 | 796 | 804 | 810 | rBV2 | 170011 | 426535 | 2.57% | 0.432% |
| 15 | 7.804 | 830 | 836 | 850 | rVB | 2007796 | 3307340 | 19.94% | 3.347% |
| 16 | 8.122 | 885 | 890 | 896 | rBV2 | 105945 | 195121 | 1.18% | 0.197% |
| 17 | 8.651 | 973 | 980 | 986 | rVV | 1601908 | 2701485 | 16.29% | 2.734% |
| 18 | 9.028 | 1038 | 1044 | 1052 | rBV | 558579 | 854627 | 5.15% | 0.865% |
| 19 | 10.257 | 1242 | 1253 | 1258 | rBV | 644167 | 1255358 | 7.57% | 1.270% |
| 20 | 10.310 | 1258 | 1262 | 1270 | rVB | 339969 | 599581 | 3.62% | 0.607% |
| 21 | 11.275 | 1416 | 1426 | 1431 | rBV | 127986 | 232399 | 1.40% | 0.235% |
| 22 | 11.516 | 1461 | 1467 | 1475 | rVB2 | 288380 | 466059 | 2.81% | 0.472% |
| 23 | 11.686 | 1491 | 1496 | 1502 | rVB | 207452 | 297476 | 1.79% | 0.301% |
| 24 | 11.933 | 1523 | 1538 | 1544 | rBV2 | 165804 | 360123 | 2.17% | 0.364% |
| 25 | 12.157 | 1569 | 1576 | 1586 | rBV | 106979 | 236478 | 1.43% | 0.239% |
| 26 | 12.663 | 1658 | 1662 | 1667 | rVB | 145883 | 203819 | 1.23% | 0.206% |
| 27 | 12.757 | 1672 | 1678 | 1690 | rVB | 3228184 | 4828930 | 29.12% | 4.887% |
| 28 | 12.963 | 1709 | 1713 | 1724 | rVB3 | 302178 | 533023 | 3.21% | 0.539% |
| 29 | 13.304 | 1765 | 1771 | 1773 | rBV2 | 108295 | 168729 | 1.02% | 0.171% |
| 30 | 13.463 | 1793 | 1798 | 1804 | rBV | 151009 | 309563 | 1.87% | 0.313% |
| 31 | 13.551 | 1810 | 1813 | 1817 | rVB2 | 212071 | 299707 | 1.81% | 0.303% |
| 32 | 13.627 | 1818 | 1826 | 1831 | rBV2 | 399281 | 678642 | 4.09% | 0.687% |
| 33 | 14.057 | 1892 | 1899 | 1903 | rBV | 370614 | 494491 | 2.98% | 0.500% |
| 34 | 14.151 | 1908 | 1915 | 1922 | rVB2 | 812659 | 1334168 | 8.05% | 1.350% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121718\
Data File : BM018249.D
Acq On : 17 Dec 2018 15:13
Operator : JU/SJ
Sample : J6378-11
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** P001-SD012-0612-01

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 14.563 | 1981 | 1985 | 1989 | rVB2 | 138483 | 187317 | 1.13% | 0.190% |
| 36 | 14.680 | 2002 | 2005 | 2010 | rVB2 | 170537 | 229234 | 1.38% | 0.232% |
| 37 | 14.933 | 2044 | 2048 | 2055 | rBV5 | 115775 | 196587 | 1.19% | 0.199% |
| 38 | 15.021 | 2059 | 2063 | 2067 | rVB | 399710 | 502925 | 3.03% | 0.509% |
| 39 | 15.110 | 2075 | 2078 | 2085 | rVB5 | 90628 | 172703 | 1.04% | 0.175% |
| 40 | 15.427 | 2126 | 2132 | 2137 | rVB | 328095 | 527974 | 3.18% | 0.534% |
| 41 | 15.662 | 2163 | 2172 | 2178 | rVV | 2378022 | 3682880 | 22.21% | 3.727% |
| 42 | 15.909 | 2206 | 2214 | 2218 | rBV | 605425 | 1433739 | 8.65% | 1.451% |
| 43 | 16.009 | 2226 | 2231 | 2233 | rBV2 | 101623 | 177571 | 1.07% | 0.180% |
| 44 | 16.298 | 2277 | 2280 | 2284 | rVB3 | 207789 | 261766 | 1.58% | 0.265% |
| 45 | 16.380 | 2290 | 2294 | 2300 | rBV3 | 371585 | 568761 | 3.43% | 0.576% |
| 46 | 16.462 | 2305 | 2308 | 2311 | rBV3 | 212997 | 270148 | 1.63% | 0.273% |
| 47 | 16.686 | 2342 | 2346 | 2350 | rBV | 300020 | 504672 | 3.04% | 0.511% |
| 48 | 16.733 | 2351 | 2354 | 2361 | rVB | 404622 | 642613 | 3.88% | 0.650% |
| 49 | 16.915 | 2378 | 2385 | 2390 | rVV2 | 871129 | 1385963 | 8.36% | 1.403% |
| 50 | 16.986 | 2393 | 2397 | 2406 | rVB | 1196113 | 1775109 | 10.70% | 1.796% |
| 51 | 17.109 | 2413 | 2418 | 2424 | rBV2 | 562471 | 1027575 | 6.20% | 1.040% |
| 52 | 17.180 | 2427 | 2430 | 2435 | rVB2 | 471501 | 698349 | 4.21% | 0.707% |
| 53 | 17.298 | 2445 | 2450 | 2455 | rBV | 1045711 | 1488168 | 8.97% | 1.506% |
| 54 | 17.421 | 2469 | 2471 | 2475 | rVB | 209267 | 202892 | 1.22% | 0.205% |
| 55 | 17.827 | 2538 | 2540 | 2549 | rVB4 | 338957 | 561428 | 3.39% | 0.568% |
| 56 | 18.015 | 2570 | 2572 | 2576 | rVB2 | 245032 | 217553 | 1.31% | 0.220% |
| 57 | 18.115 | 2586 | 2589 | 2596 | rVB | 383192 | 485305 | 2.93% | 0.491% |
| 58 | 18.762 | 2697 | 2699 | 2706 | rVB3 | 218720 | 295495 | 1.78% | 0.299% |
| 59 | 18.921 | 2723 | 2726 | 2734 | rBV4 | 216034 | 407624 | 2.46% | 0.413% |
| 60 | 19.056 | 2744 | 2749 | 2754 | rVB2 | 287489 | 474439 | 2.86% | 0.480% |
| 61 | 19.139 | 2758 | 2763 | 2769 | rVV3 | 422835 | 628020 | 3.79% | 0.636% |
| 62 | 19.392 | 2802 | 2806 | 2811 | rVB | 504416 | 633031 | 3.82% | 0.641% |
| 63 | 19.521 | 2824 | 2828 | 2831 | rBV3 | 174851 | 272869 | 1.65% | 0.276% |
| 64 | 19.574 | 2832 | 2837 | 2843 | rVB | 3272309 | 4380906 | 26.42% | 4.434% |
| 65 | 19.709 | 2857 | 2860 | 2864 | rBV5 | 319037 | 463096 | 2.79% | 0.469% |
| 66 | 19.850 | 2881 | 2884 | 2888 | rVB | 604599 | 644176 | 3.88% | 0.652% |
| 67 | 19.986 | 2905 | 2907 | 2911 | rBV4 | 151642 | 223835 | 1.35% | 0.227% |
| 68 | 20.133 | 2929 | 2932 | 2938 | rVB | 729486 | 938229 | 5.66% | 0.950% |
| 69 | 20.186 | 2938 | 2941 | 2948 | rBV7 | 305822 | 689623 | 4.16% | 0.698% |
| 70 | 20.292 | 2957 | 2959 | 2966 | rVB5 | 335058 | 343939 | 2.07% | 0.348% |
| 71 | 20.539 | 2998 | 3001 | 3002 | rBV2 | 207582 | 224737 | 1.36% | 0.227% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121718\
Data File : BM018249.D
Acq On : 17 Dec 2018 15:13
Operator : JU/SJ
Sample : J6378-11
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** P001-SD012-0612-01

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 20.603 | 3009 | 3012 | 3016 | rVB2 | 431175 | 484082 | 2.92% | 0.490% |
| 73 | 20.862 | 3053 | 3056 | 3065 | rVB2 | 740263 | 1162839 | 7.01% | 1.177% |
| 74 | 20.927 | 3065 | 3067 | 3072 | rVB5 | 218440 | 263018 | 1.59% | 0.266% |
| 75 | 21.062 | 3088 | 3090 | 3097 | rVB | 473170 | 618700 | 3.73% | 0.626% |
| 76 | 21.139 | 3099 | 3103 | 3105 | rVV | 1106557 | 1356694 | 8.18% | 1.373% |
| 77 | 21.162 | 3105 | 3107 | 3113 | rVB | 861879 | 989577 | 5.97% | 1.001% |
| 78 | 21.474 | 3157 | 3160 | 3165 | rVB4 | 331129 | 453342 | 2.73% | 0.459% |
| 79 | 22.650 | 3357 | 3360 | 3365 | rVB | 631724 | 759869 | 4.58% | 0.769% |
| 80 | 22.709 | 3366 | 3370 | 3380 | rVB3 | 443233 | 760081 | 4.58% | 0.769% |
| 81 | 23.303 | 3467 | 3471 | 3477 | rVB | 800603 | 1295712 | 7.81% | 1.311% |

Sum of corrected areas: 98809993

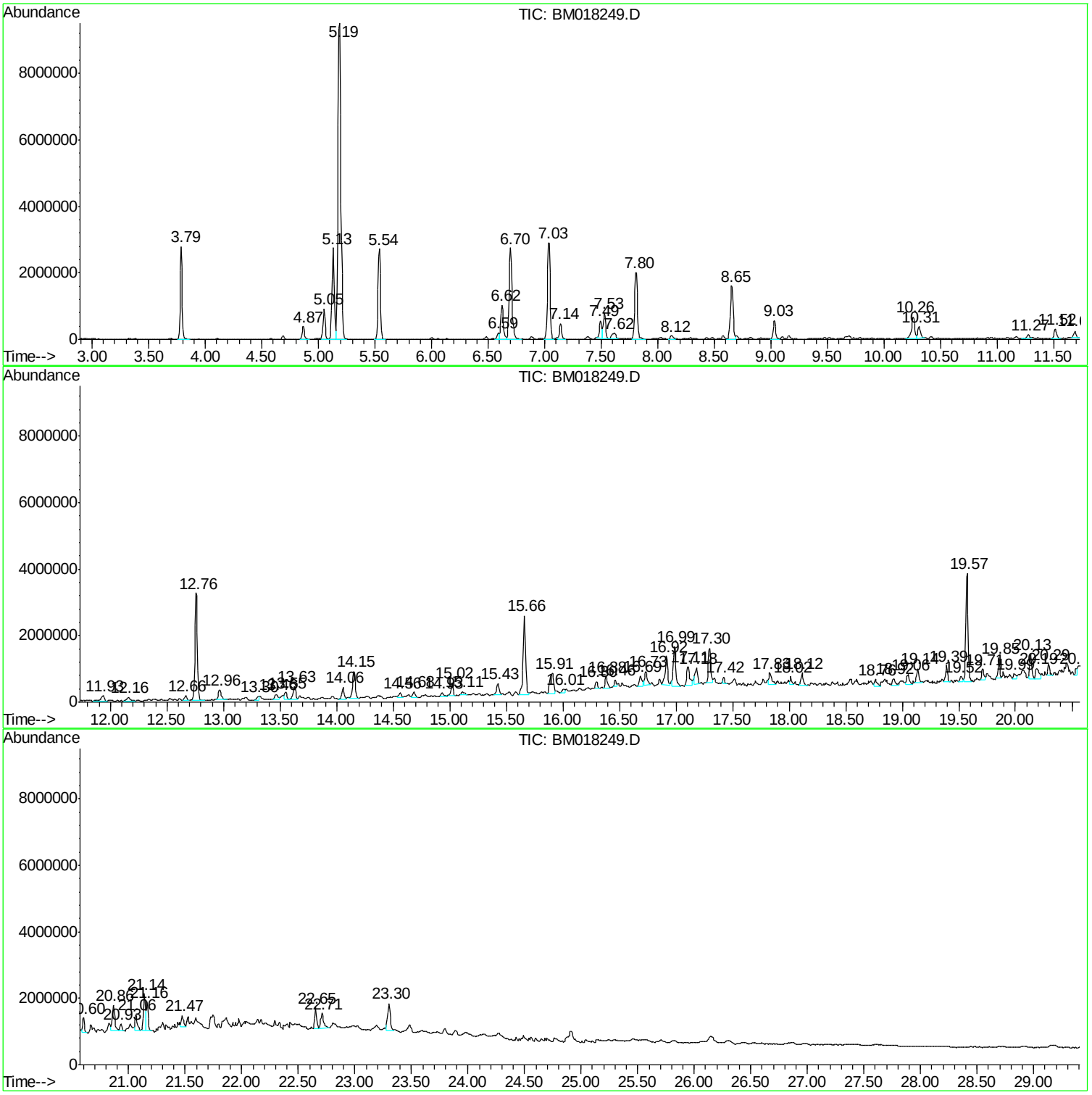
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121718\
Data File : BM018249.D
Acq On : 17 Dec 2018 15:13
Operator : JU/SJ
Sample : J6378-11
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** P001-SD012-0612-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121718\
Data File : BM018249.D
Acq On : 17 Dec 2018 15:13
Operator : JU/SJ
Sample : J6378-11
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** P001-SD012-0612-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

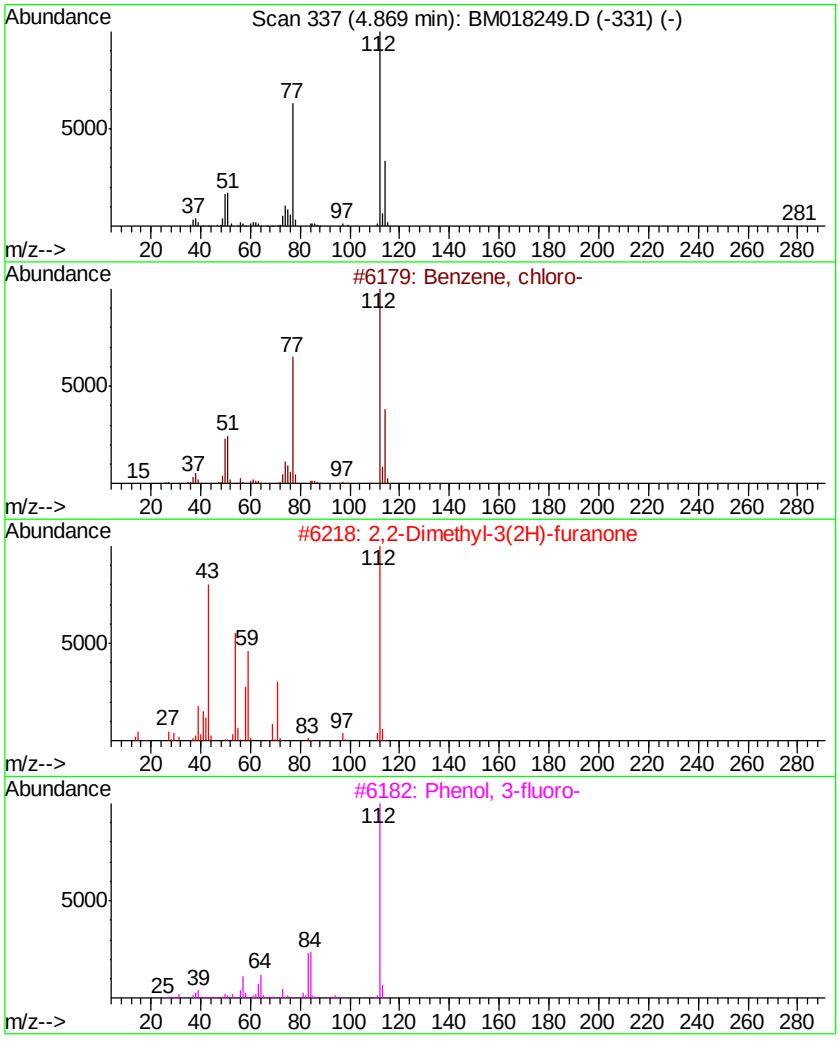
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

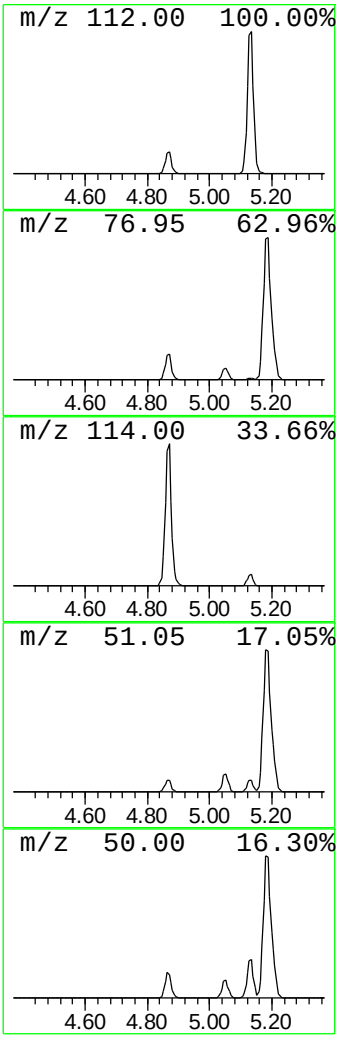
**********

Peak Number 2 unknown4.87 Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.87 | 14.28 ng | 555752 | 1,4-Dichlorobenzene-d4 | 7.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, chloro- | 112 | C6H5Cl | 000108-90-7 | 96 |
| 2 | 2,2-Dimethyl-3(2H)-furanone | 112 | C6H8O2 | 035298-48-7 | 35 |
| 3 | Phenol, 3-fluoro- | 112 | C6H5FO | 000372-20-3 | 35 |
| 4 | Phenol, 4-fluoro- | 112 | C6H5FO | 000371-41-5 | 25 |
| 5 | Cevane-3,4,6,7,14,15,16,20-octol... | 793 | C41H63NO14 | 000143-57-7 | 23 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121718\
Data File : BM018249.D
Acq On : 17 Dec 2018 15:13
Operator : JU/SJ
Sample : J6378-11
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** P001-SD012-0612-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

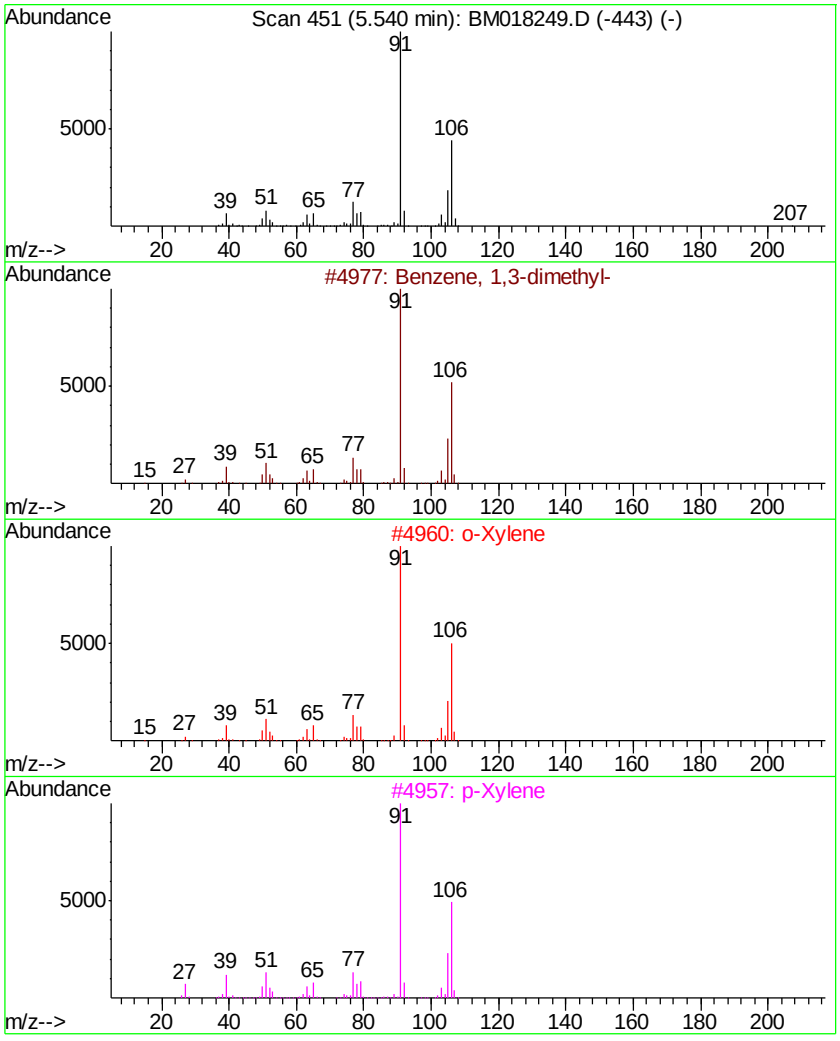
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

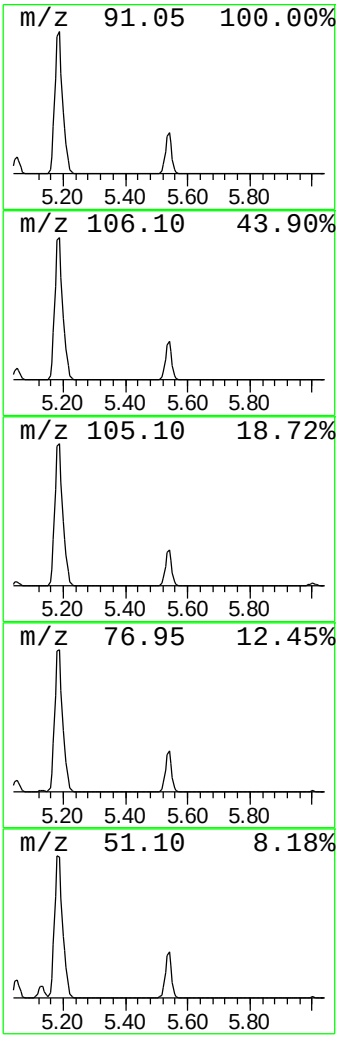
**********

Peak Number 5 Benzene, 1,3-dimethyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.54 | 97.77 ng | 3805790 | 1,4-Dichlorobenzene-d4 | 7.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,3-dimethyl- | 106 | C8H10 | 000108-38-3 | 97 |
| 2 | o-Xylene | 106 | C8H10 | 000095-47-6 | 97 |
| 3 | p-Xylene | 106 | C8H10 | 000106-42-3 | 95 |
| 4 | Ethylbenzene | 106 | C8H10 | 000100-41-4 | 87 |
| 5 | 1,3-Cyclopentadiene, 5-(1-methyl... | 106 | C8H10 | 002175-91-9 | 87 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121718\
Data File : BM018249.D
Acq On : 17 Dec 2018 15:13
Operator : JU/SJ
Sample : J6378-11
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** P001-SD012-0612-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

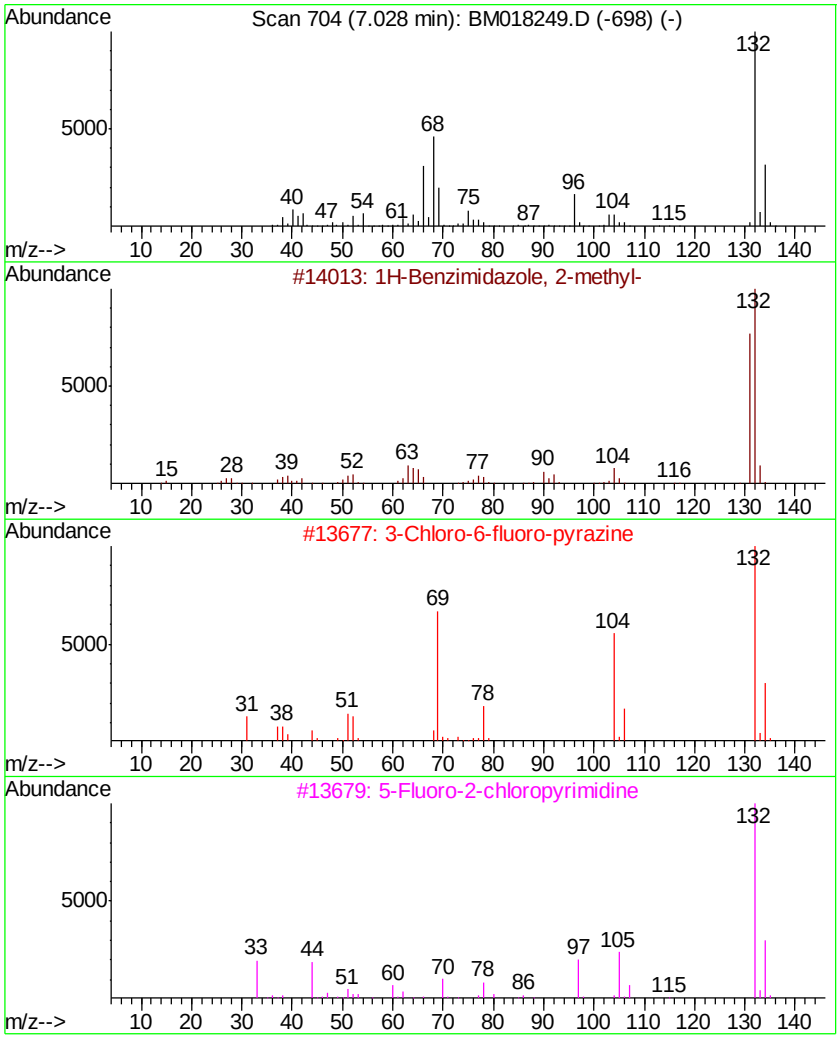
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

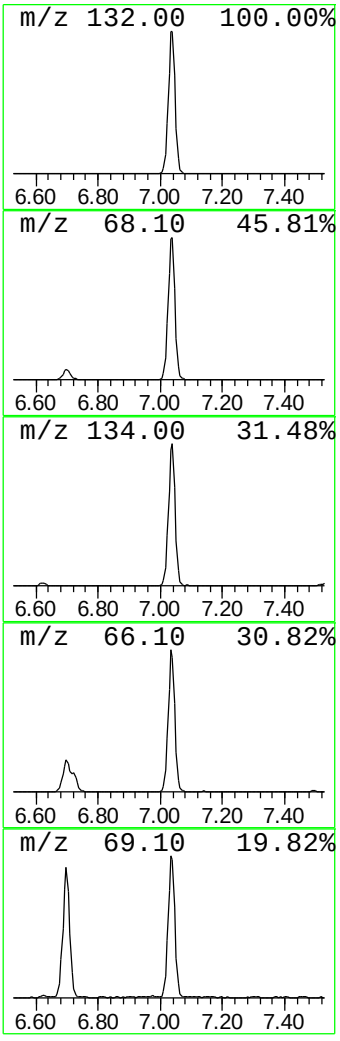
**********

Peak Number 7 unknown7.03 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.03 | 116.64 ng | 4540320 | 1,4-Dichlorobenzene-d4 | 7.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Benzimidazole, 2-methyl- | 132 | C8H8N2 | 000615-15-6 | 22 |
| 2 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 16 |
| 3 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 12 |
| 4 | (5-METHYL-2-PYRIDYL)ACETONITRILE | 132 | C8H8N2 | 1000241-93-9 | 10 |
| 5 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 9 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121718\
Data File : BM018249.D
Acq On : 17 Dec 2018 15:13
Operator : JU/SJ
Sample : J6378-11
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** P001-SD012-0612-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

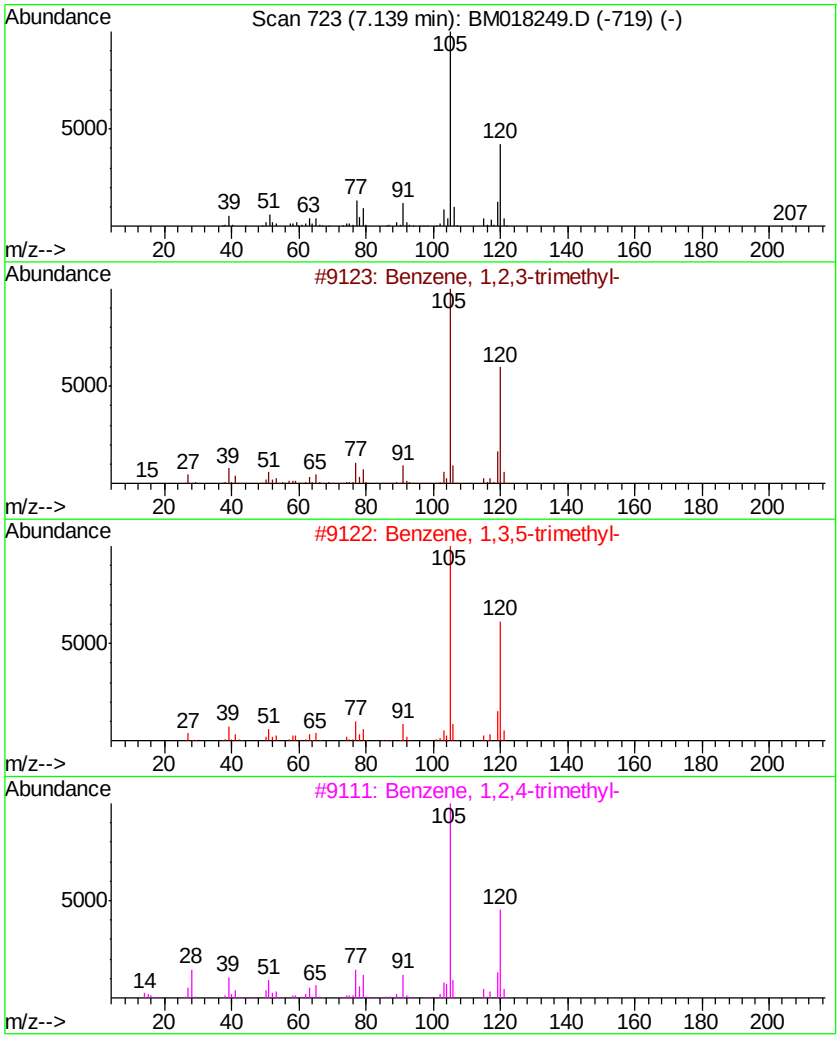
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

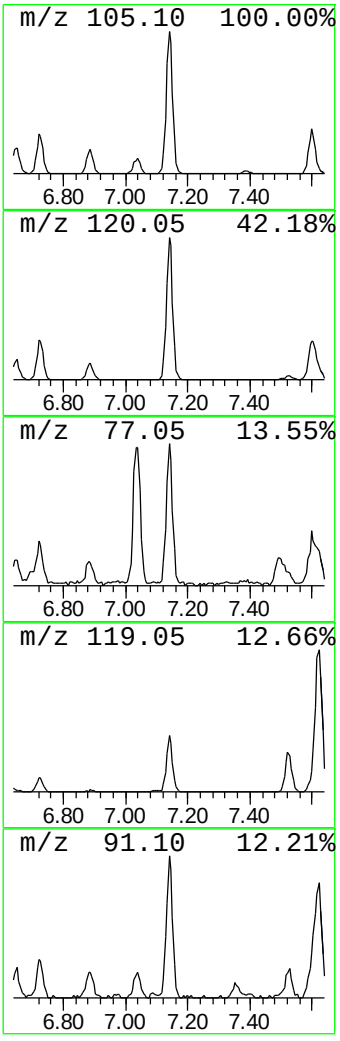
**********

Peak Number 8 Benzene, 1,2,3-trimethyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.14 | 17.26 ng | 671756 | 1,4-Dichlorobenzene-d4 | 7.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 97 |
| 2 | Benzene, 1,3,5-trimethyl- | 120 | C9H12 | 000108-67-8 | 95 |
| 3 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 94 |
| 4 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 91 |
| 5 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 90 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121718\
Data File : BM018249.D
Acq On : 17 Dec 2018 15:13
Operator : JU/SJ
Sample : J6378-11
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** P001-SD012-0612-01

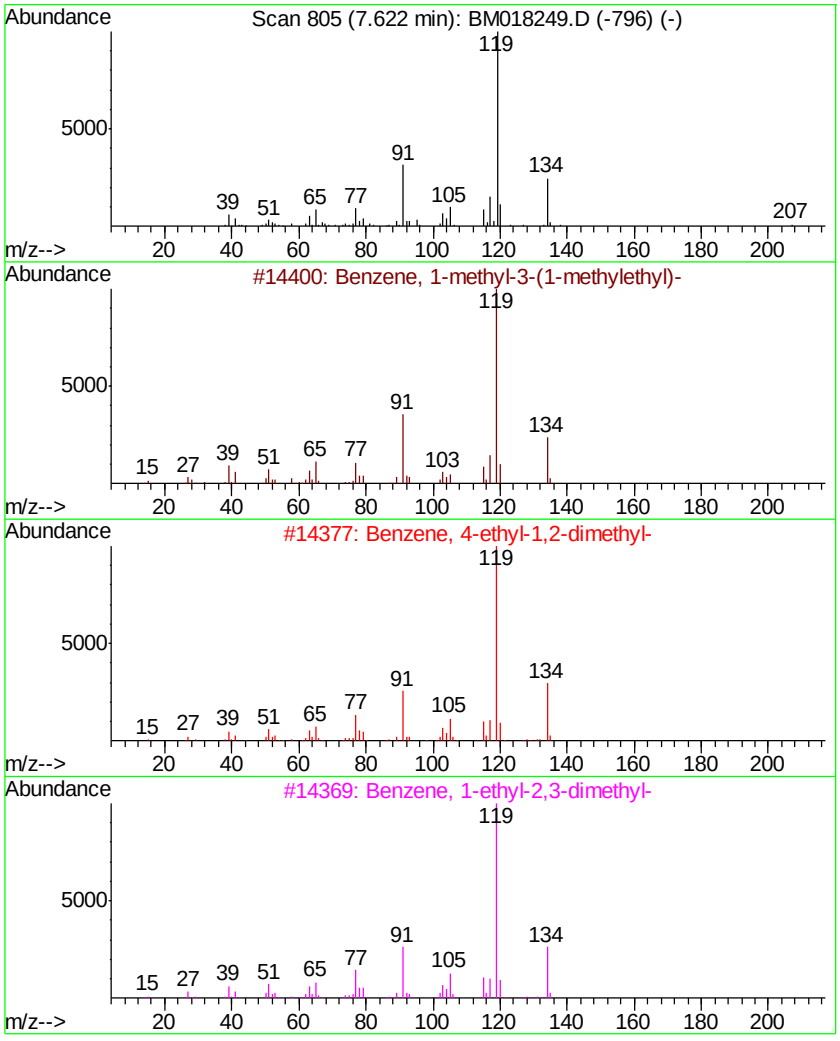
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

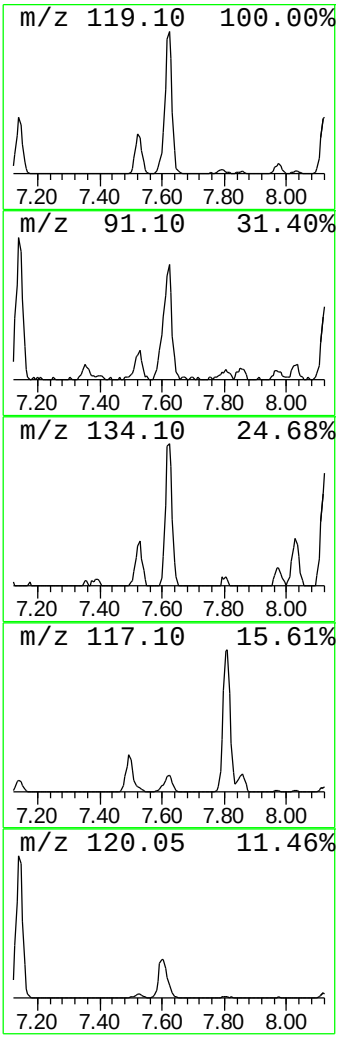
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 9 Benzene, 1-methyl-3-(1-meth... Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.62 | 10.96 ng | 426535 | 1,4-Dichlorobenzene-d4 | 7.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 93 |
| 2 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 93 |
| 3 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 93 |
| 4 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 87 |
| 5 | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14 | 000874-41-9 | 81 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121718\
Data File : BM018249.D
Acq On : 17 Dec 2018 15:13
Operator : JU/SJ
Sample : J6378-11
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** P001-SD012-0612-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

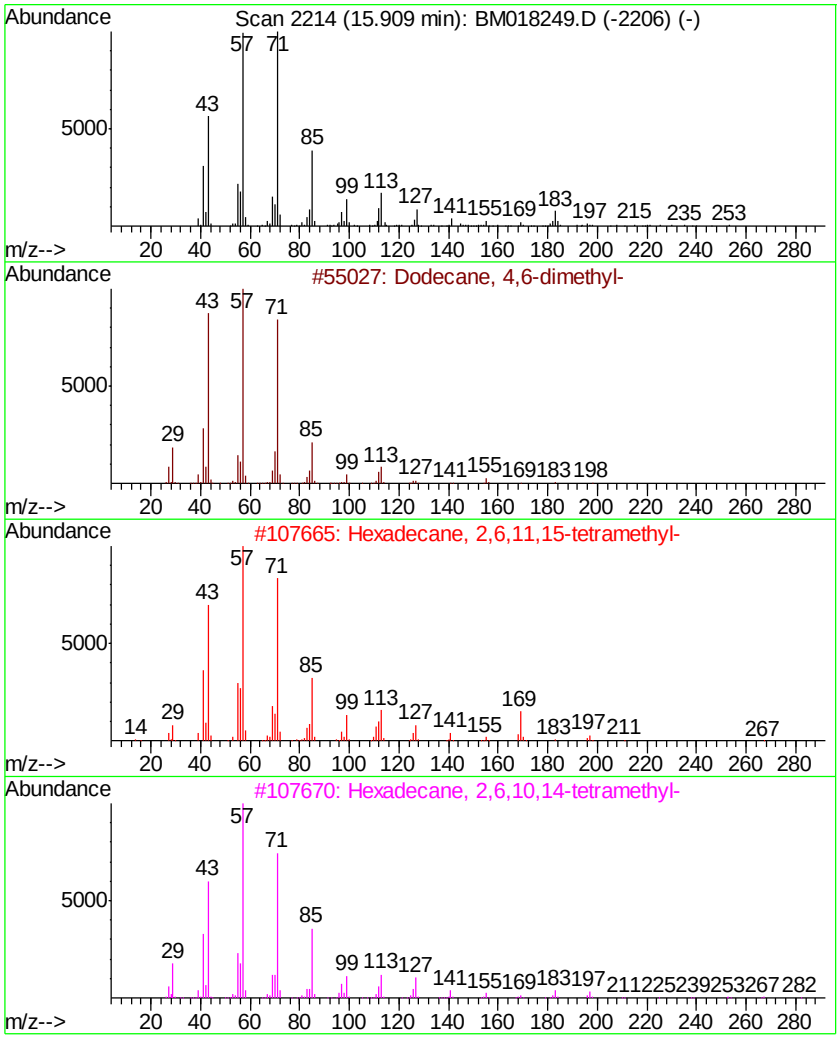
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

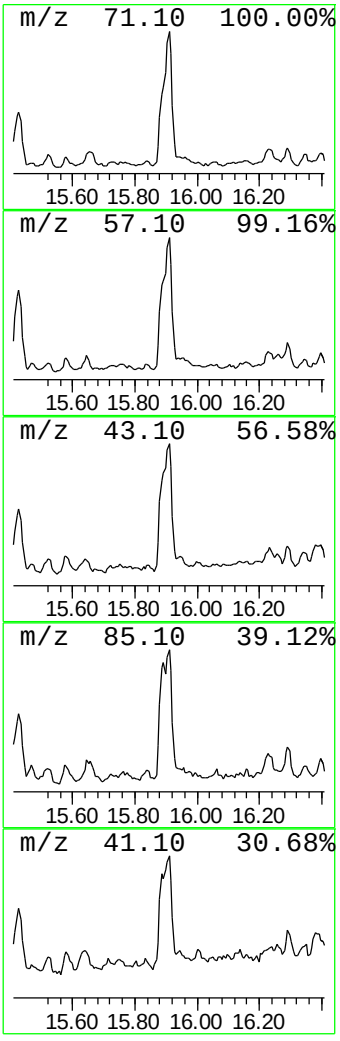
**********

Peak Number 12 Dodecane, 4,6-dimethyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.91 | 20.69 ng | 1433740 | Phenanthrene-d10 | 16.92 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecane, 4,6-dimethyl- | 198 | C14H30 | 061141-72-8 | 90 |
| 2 | Hexadecane, 2,6,11,15-tetramethyl- | 282 | C20H42 | 000504-44-9 | 90 |
| 3 | Hexadecane, 2,6,10,14-tetramethyl- | 282 | C20H42 | 000638-36-8 | 90 |
| 4 | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44 | 054833-48-6 | 86 |
| 5 | Tridecane, 4-methyl- | 198 | C14H30 | 026730-12-1 | 81 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121718\
Data File : BM018249.D
Acq On : 17 Dec 2018 15:13
Operator : JU/SJ
Sample : J6378-11
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** P001-SD012-0612-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

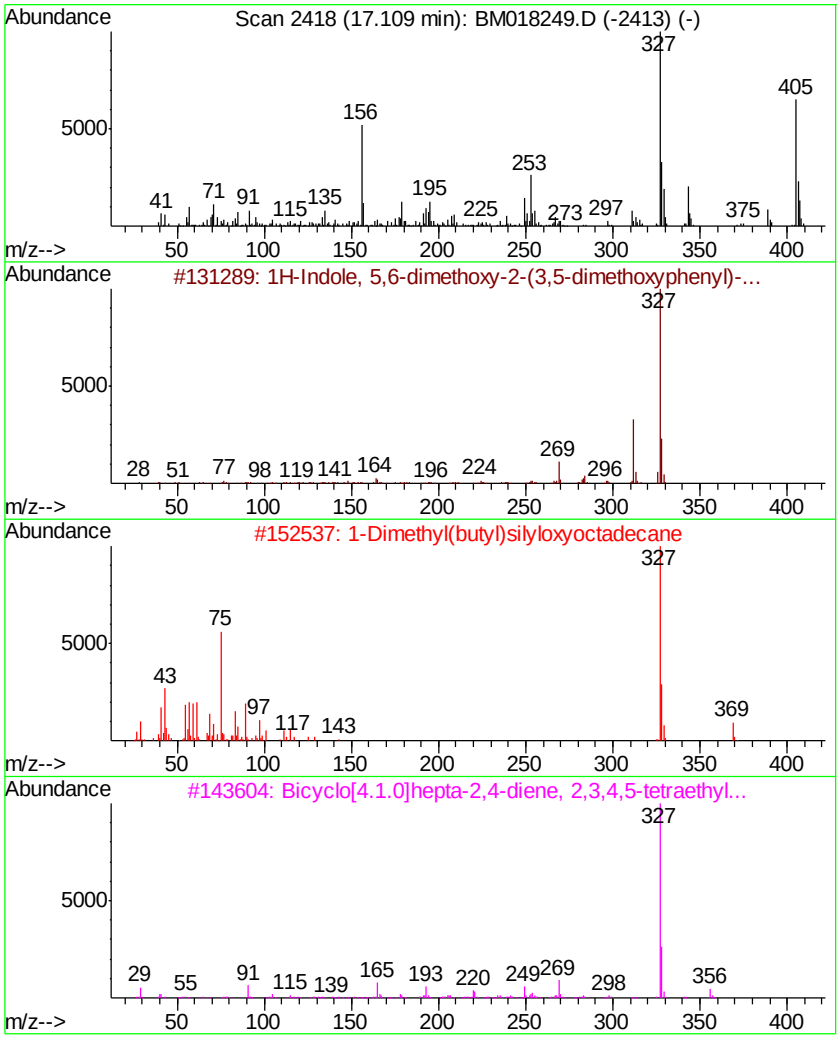
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

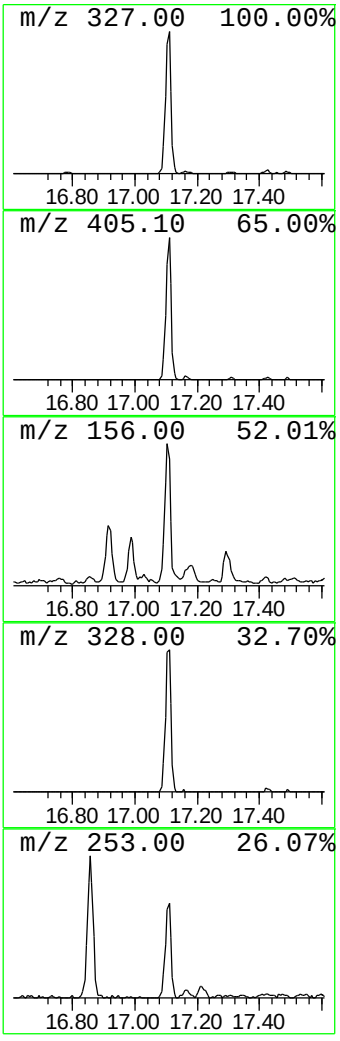
**********

Peak Number 13 unknown17.11 Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.11 | 14.83 ng | 1027580 | Phenanthrene-d10 | 16.92 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indole, 5,6-dimethoxy-2-(3,5-... | 327 | C19H21NO4 | 156785-69-2 | 30 |
| 2 | 1-Dimethyl(butyl)silyloxyoctadecane | 384 | C24H52OSi | 1000280-36-5 | 12 |
| 3 | Bicyclo[4.1.0]hepta-2,4-diene, 2... | 356 | C27H32 | 1000158-07-0 | 12 |
| 4 | Phosphine oxide, bis(pentamethyl... | 342 | C22H31OP | 122085-61-4 | 10 |
| 5 | Tetradecanoic acid, (2,2-dimethy... | 342 | C20H38O4 | 056630-71-8 | 10 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121718\
Data File : BM018249.D
Acq On : 17 Dec 2018 15:13
Operator : JU/SJ
Sample : J6378-11
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** P001-SD012-0612-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

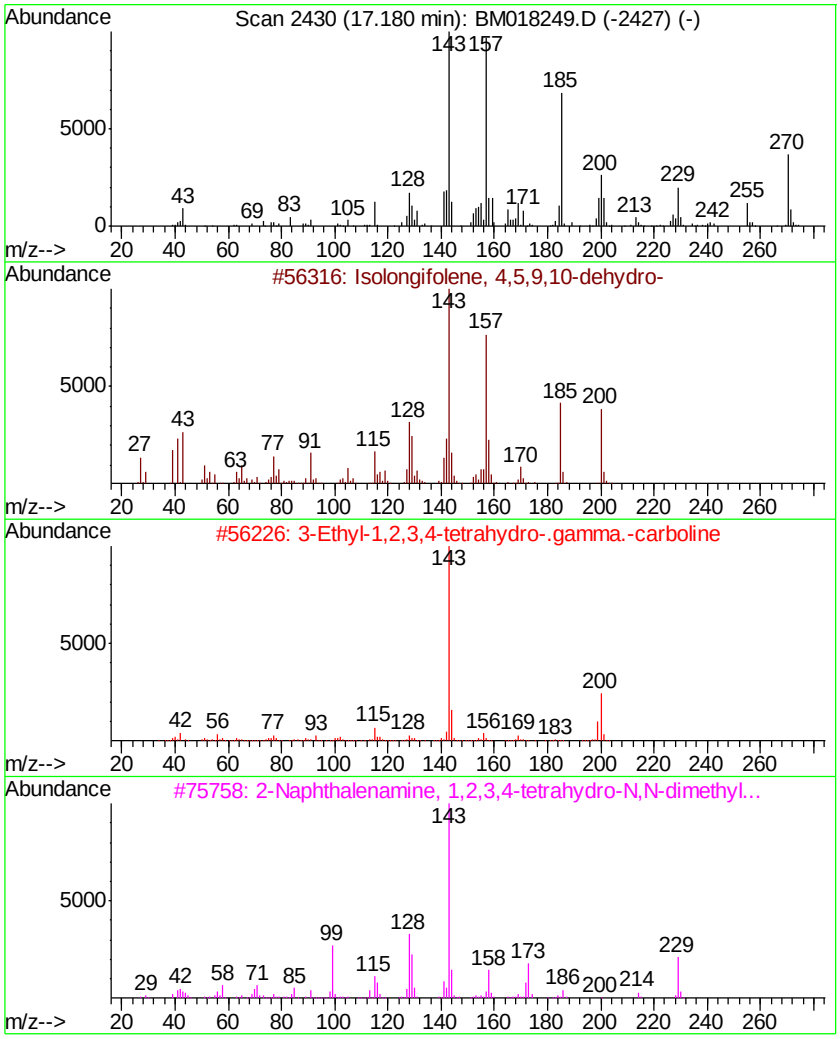
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

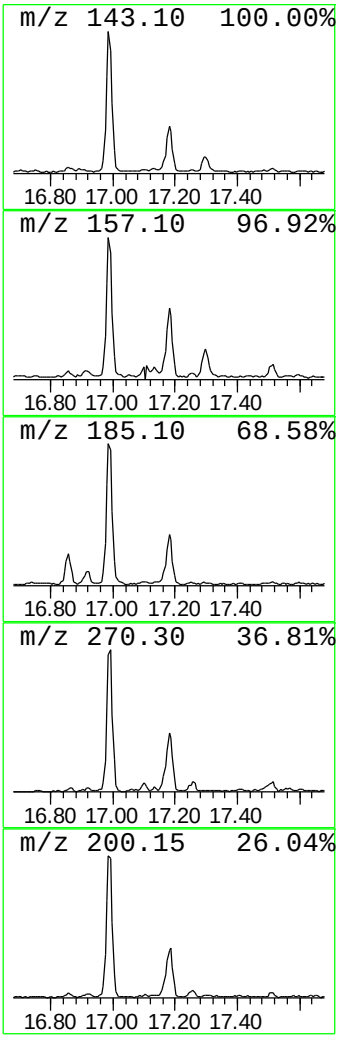
**********

Peak Number 14 Isolongifolene, 4,5,9,10-de... Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.18 | 10.08 ng | 698349 | Phenanthrene-d10 | 16.92 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Isolongifolene, 4,5,9,10-dehydro- | 200 | C15H20 | 156747-45-4 | 52 |
| 2 | 3-Ethyl-1,2,3,4-tetrahydro-.gamm... | 200 | C13H16N2 | 006208-42-0 | 25 |
| 3 | 2-Naphthalenamine, 1,2,3,4-tetra... | 229 | C16H23N | 068157-17-5 | 22 |
| 4 | Bicyclo[3.3.1]nonane, 1-phenyl- | 200 | C15H20 | 026845-39-6 | 22 |
| 5 | 9-Methyl-S-octahydrophenanathracene | 200 | C15H20 | 023861-81-6 | 18 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121718\
Data File : BM018249.D
Acq On : 17 Dec 2018 15:13
Operator : JU/SJ
Sample : J6378-11
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** P001-SD012-0612-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

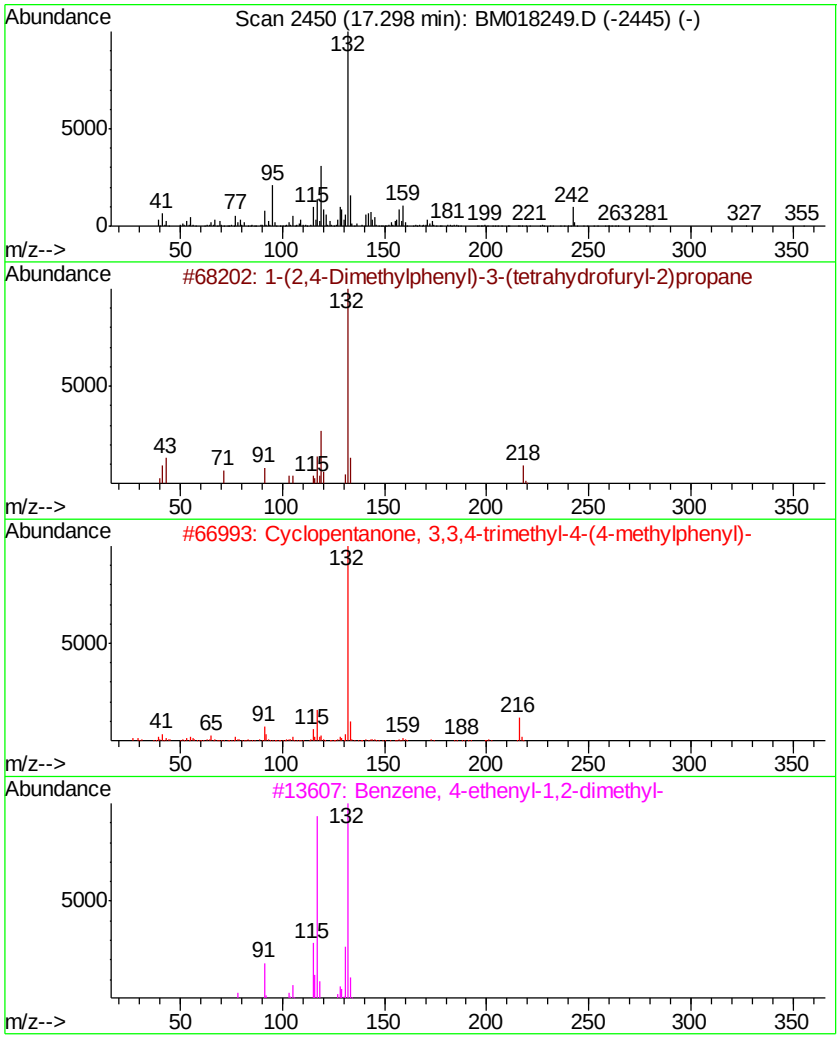
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

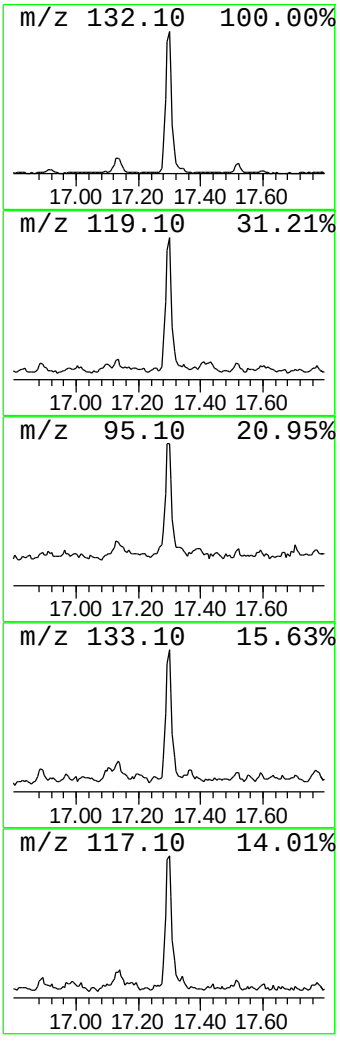
**********

Peak Number 15 1-(2,4-Dimethylphenyl)-3-(t... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.30 | 21.47 ng | 1488170 | Phenanthrene-d10 | 16.92 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-(2,4-Dimethylphenyl)-3-(tetrah... | 218 | C15H22O | 1000215-25-2 | 50 |
| 2 | Cyclopentanone, 3,3,4-trimethyl-... | 216 | C15H20O | 056077-23-7 | 47 |
| 3 | Benzene, 4-ethenyl-1,2-dimethyl- | 132 | C10H12 | 027831-13-6 | 47 |
| 4 | Benzene, 1-methyl-4-(1,2,2-trime... | 202 | C15H22 | 016982-00-6 | 45 |
| 5 | Boranamine, N,N-dimethyl-1-pheny... | 175 | C11H18BN | 055976-16-4 | 43 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121718\
Data File : BM018249.D
Acq On : 17 Dec 2018 15:13
Operator : JU/SJ
Sample : J6378-11
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** P001-SD012-0612-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

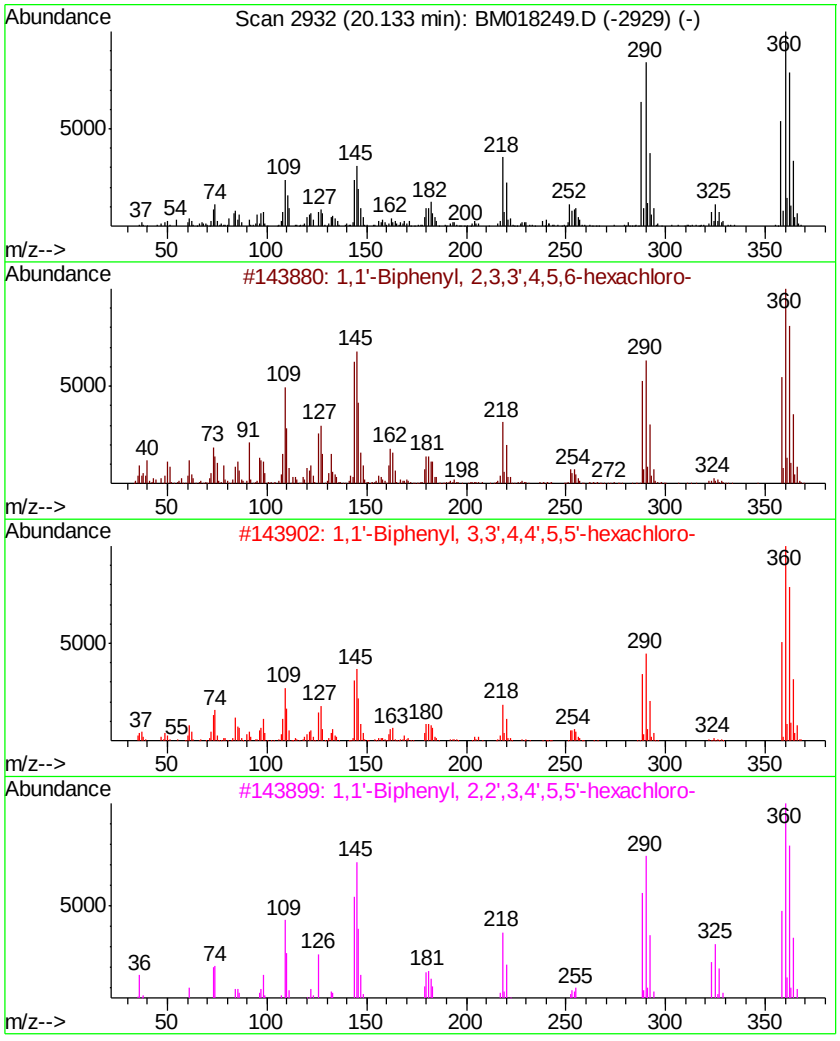
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

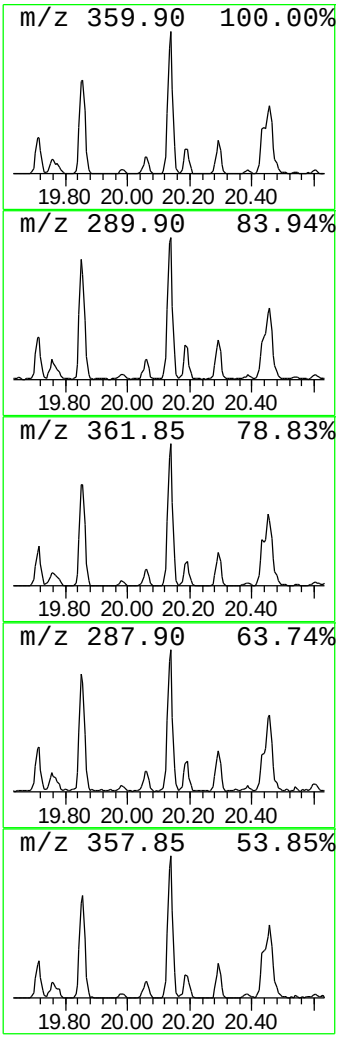
**********

Peak Number 16 1,1'-Biphenyl, 2,3,3',4,5,6... Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.13 | 13.83 ng | 938229 | Chrysene-d12 | 21.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,3,3',4,5,6-hexa... | 358 | C12H4Cl6 | 041411-62-5 | 97 |
| 2 | 1,1'-Biphenyl, 3,3',4,4',5,5'-he... | 358 | C12H4Cl6 | 032774-16-6 | 96 |
| 3 | 1,1'-Biphenyl, 2,2',3,4',5,5'-he... | 358 | C12H4Cl6 | 051908-16-8 | 96 |
| 4 | 1,1'-Biphenyl, 2,2',3,4,5,6'-Hex... | 358 | C12H4Cl6 | 068194-15-0 | 95 |
| 5 | 1,1'-Biphenyl, 2,2',3,3',4,4'-he... | 358 | C12H4Cl6 | 038380-07-3 | 95 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121718\
Data File : BM018249.D
Acq On : 17 Dec 2018 15:13
Operator : JU/SJ
Sample : J6378-11
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** P001-SD012-0612-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

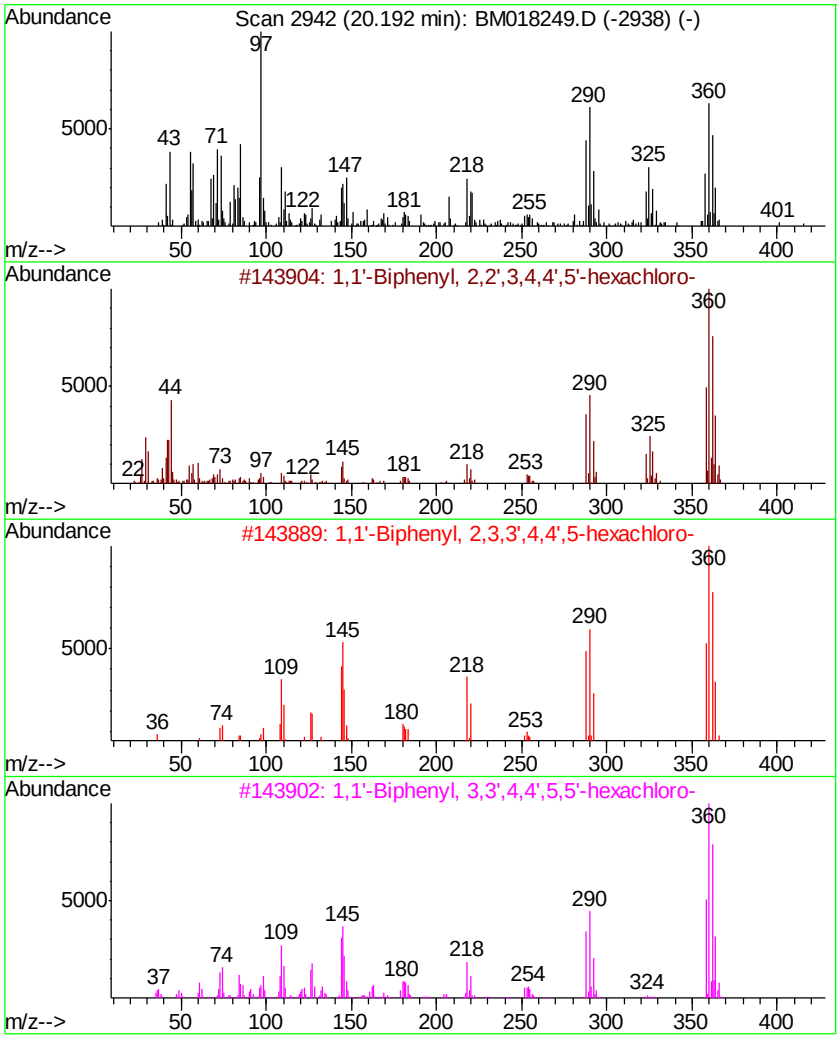
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

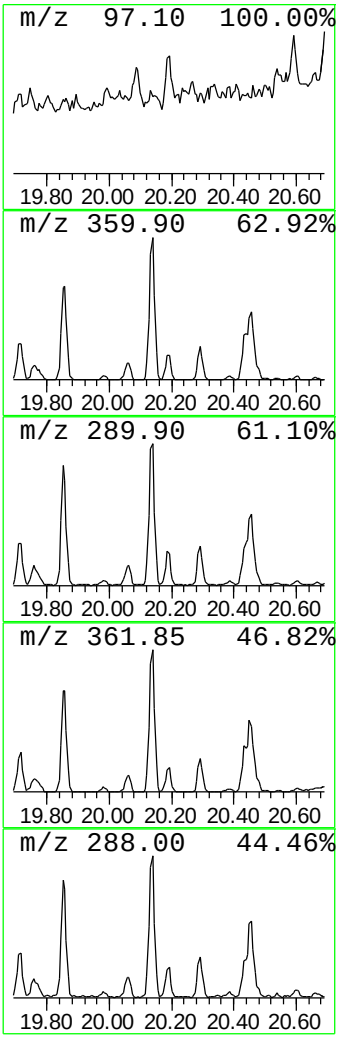
**********

Peak Number 17 1,1'-Biphenyl, 2,2',3,4,4',... Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.19 | 10.17 ng | 689623 | Chrysene-d12 | 21.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,2',3,4,4',5'-he... | 358 | C12H4Cl6 | 035065-28-2 | 98 |
| 2 | 1,1'-Biphenyl, 2,3,3',4,4',5-hex... | 358 | C12H4Cl6 | 038380-08-4 | 96 |
| 3 | 1,1'-Biphenyl, 3,3',4,4',5,5'-he... | 358 | C12H4Cl6 | 032774-16-6 | 95 |
| 4 | 1,1'-Biphenyl, 2,2',3,4',5',6-he... | 358 | C12H4Cl6 | 038380-04-0 | 93 |
| 5 | 1,1'-Biphenyl, 2,2',4,4',5,5'-he... | 358 | C12H4Cl6 | 035065-27-1 | 93 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121718\
Data File : BM018249.D
Acq On : 17 Dec 2018 15:13
Operator : JU/SJ
Sample : J6378-11
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** P001-SD012-0612-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

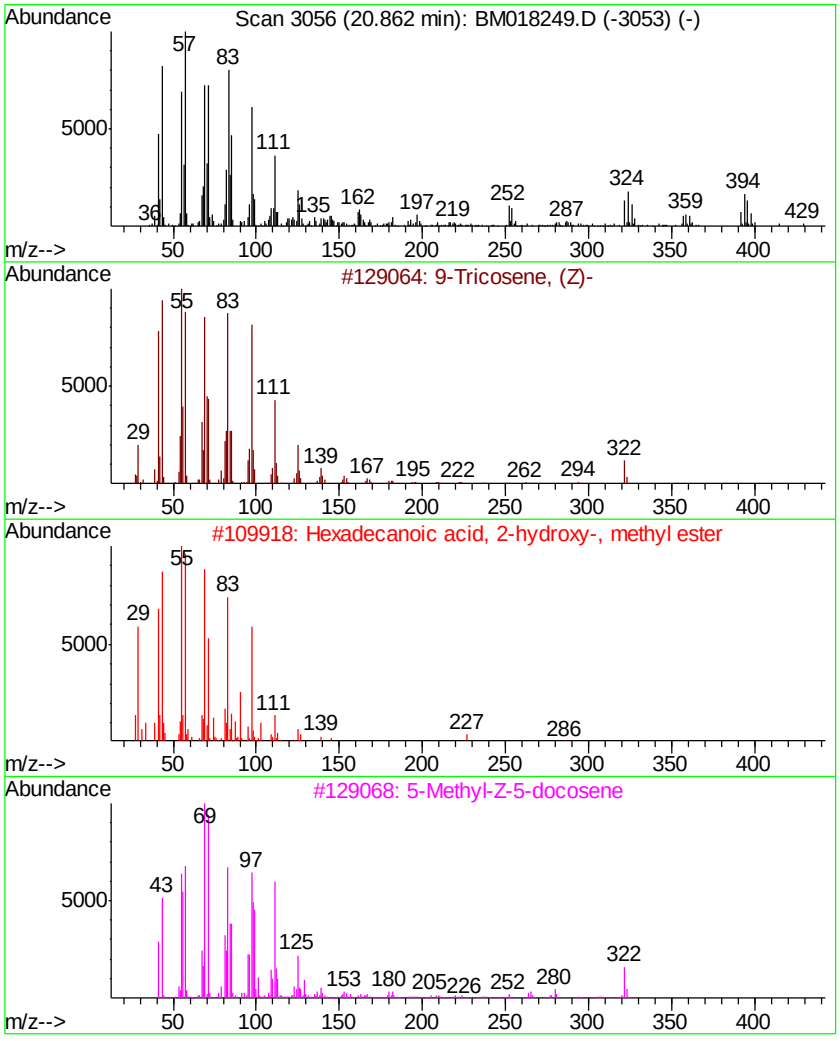
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

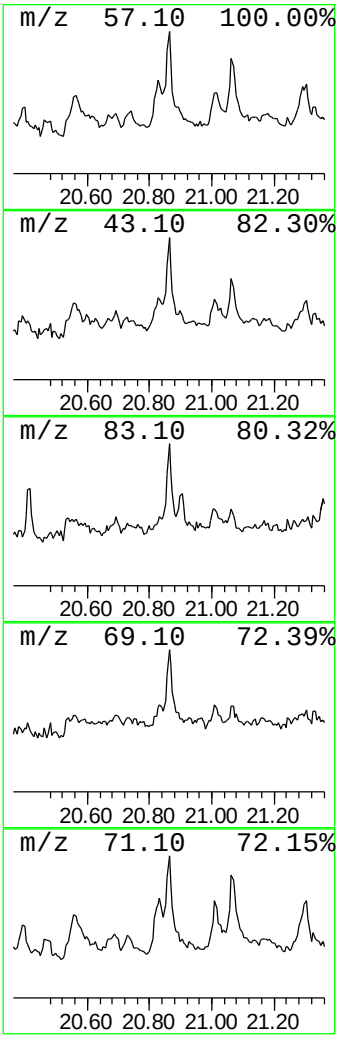
**********

Peak Number 18 9-Tricosene, (Z)- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.86 | 17.14 ng | 1162840 | Chrysene-d12 | 21.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9-Tricosene, (Z)- | 322 | C23H46 | 027519-02-4 | 78 |
| 2 | Hexadecanoic acid, 2-hydroxy-, m... | 286 | C17H34O3 | 016742-51-1 | 37 |
| 3 | 5-Methyl-Z-5-docosene | 322 | C23H46 | 1000131-17-1 | 35 |
| 4 | 4-Methyl-Z-4-docosene | 322 | C23H46 | 1000131-17-0 | 35 |
| 5 | .beta.-D-Mannofuranoside, 2,3:5,... | 650 | C39H64B2O6 | 1000155-27-8 | 17 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121718\
Data File : BM018249.D
Acq On : 17 Dec 2018 15:13
Operator : JU/SJ
Sample : J6378-11
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** P001-SD012-0612-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

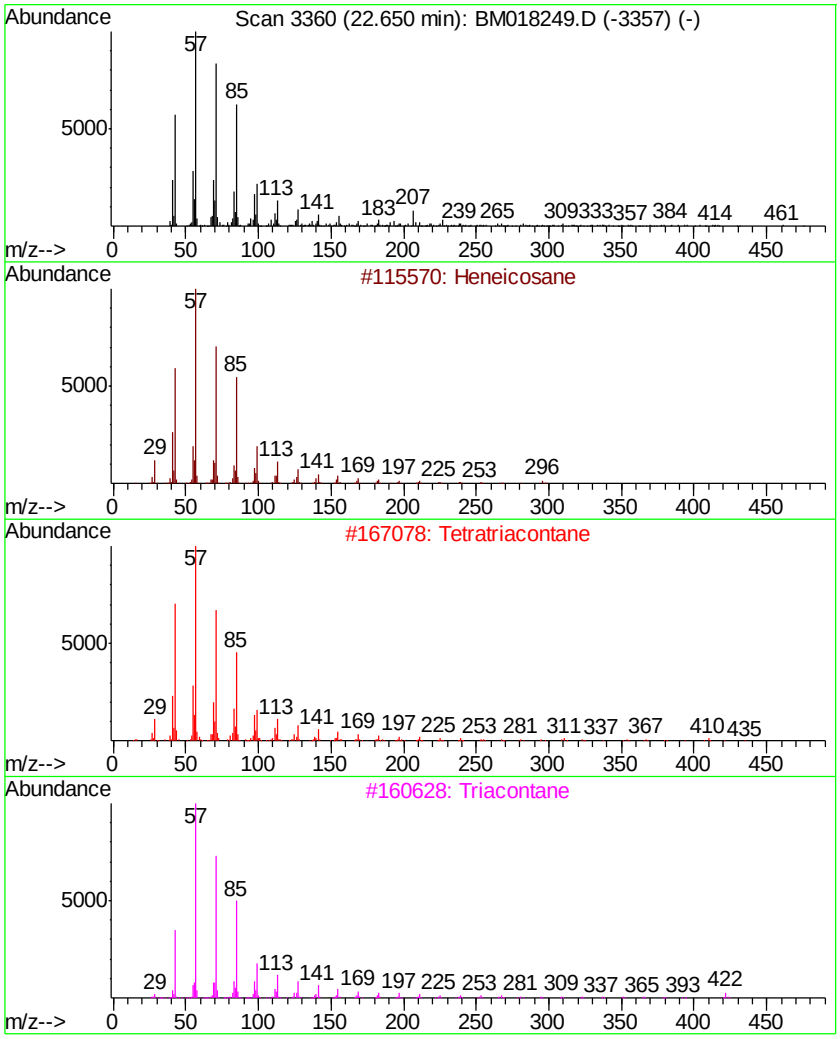
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

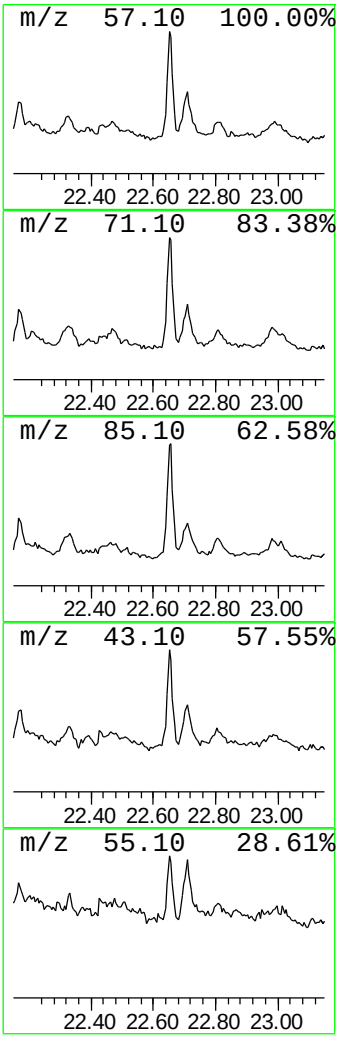
**********

Peak Number 19 Heneicosane Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.65 | 11.73 ng | 759869 | Perylene-d12 | 23.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 2 | Tetratriacontane | 479 | C34H70 | 014167-59-0 | 91 |
| 3 | Triacontane | 422 | C30H62 | 000638-68-6 | 91 |
| 4 | Octacosane | 394 | C28H58 | 000630-02-4 | 90 |
| 5 | Pentadecane, 8-hexyl- | 296 | C21H44 | 013475-75-7 | 87 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121718\
Data File : BM018249.D
Acq On : 17 Dec 2018 15:13
Operator : JU/SJ
Sample : J6378-11
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** P001-SD012-0612-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

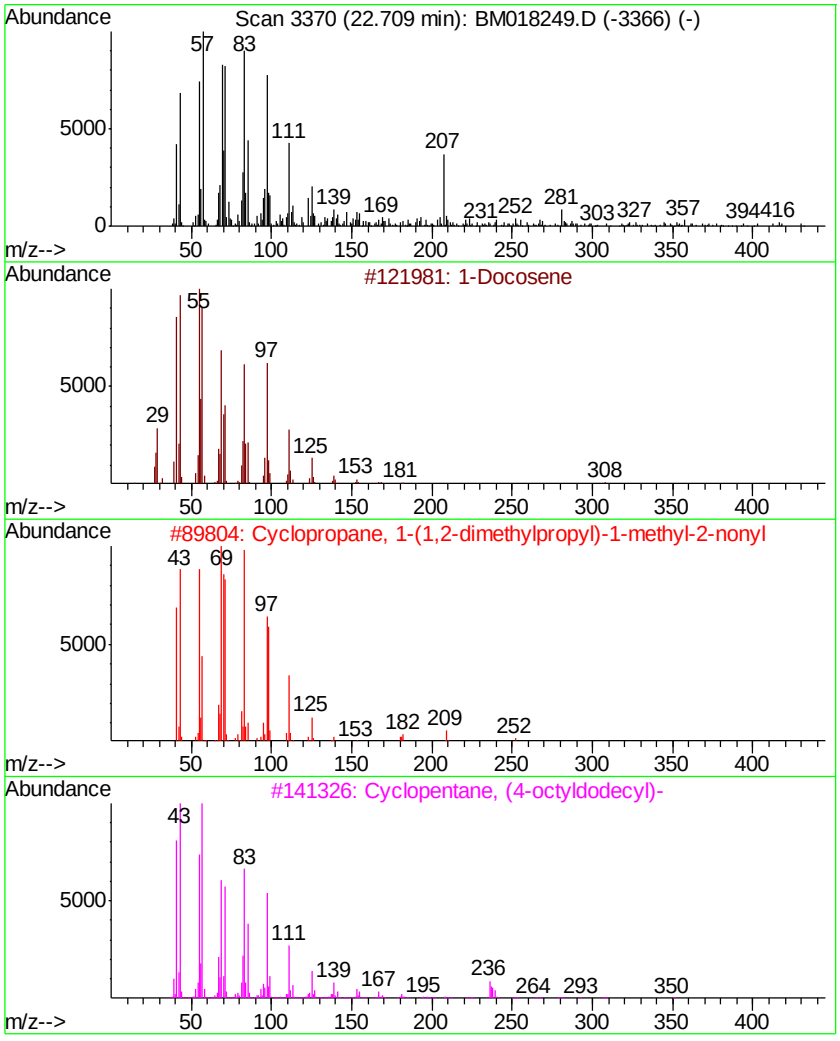
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

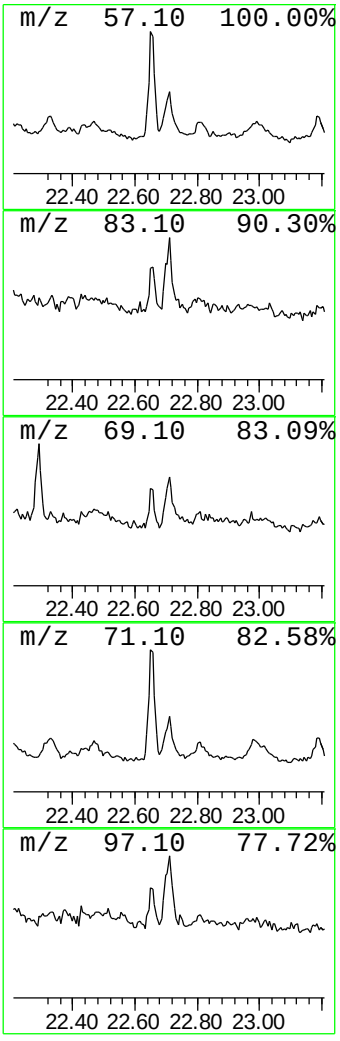
**********

Peak Number 20 1-Docosene Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.71 | 11.73 ng | 760081 | Perylene-d12 | 23.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Docosene | 308 | C22H44 | 001599-67-3 | 83 |
| 2 | Cyclopropane, 1-(1,2-dimethylpro... | 252 | C18H36 | 041977-42-8 | 74 |
| 3 | Cyclopentane, (4-octyldodecyl)- | 350 | C25H50 | 005638-09-5 | 58 |
| 4 | Cyclooctacosane | 392 | C28H56 | 000297-24-5 | 58 |
| 5 | Thieno[2,3-d]-1,3-thiaselenol-2-... | 238 | C5H2S3Se | 081803-09-0 | 56 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM121718\
Data File : BM018249.D
Acq On : 17 Dec 2018 15:13
Operator : JU/SJ
Sample : J6378-11
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** P001-SD012-0612-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| unknown4.87 | 4.87 | 14.3 | ng | 555752 | 1 | 7.49 | 778527 | 20.0 |
| Benzene, 1,3-dime... | 5.54 | 97.8 | ng | 3805790 | 1 | 7.49 | 778527 | 20.0 |
| unknown7.03 | 7.03 | 116.6 | ng | 4540320 | 1 | 7.49 | 778527 | 20.0 |
| Benzene, 1,2,3-tr... | 7.14 | 17.3 | ng | 671756 | 1 | 7.49 | 778527 | 20.0 |
| Benzene, 1-methyl... | 7.62 | 11.0 | ng | 426535 | 1 | 7.49 | 778527 | 20.0 |
| Dodecane, 4,6-dim... | 15.91 | 20.7 | ng | 1433740 | 4 | 16.92 | 1385960 | 20.0 |
| unknown17.11 | 17.11 | 14.8 | ng | 1027580 | 4 | 16.92 | 1385960 | 20.0 |
| Isolongifolene, 4... | 17.18 | 10.1 | ng | 698349 | 4 | 16.92 | 1385960 | 20.0 |
| 1-(2,4-Dimethylph... | 17.30 | 21.5 | ng | 1488170 | 4 | 16.92 | 1385960 | 20.0 |
| 1,1'-Biphenyl, 2,... | 20.13 | 13.8 | ng | 938229 | 5 | 21.14 | 1356690 | 20.0 |
| 1,1'-Biphenyl, 2,... | 20.19 | 10.2 | ng | 689623 | 5 | 21.14 | 1356690 | 20.0 |
| 9-Tricosene, (Z)- | 20.86 | 17.1 | ng | 1162840 | 5 | 21.14 | 1356690 | 20.0 |
| Heneicosane | 22.65 | 11.7 | ng | 759869 | 6 | 23.30 | 1295710 | 20.0 |
| 1-Docosene | 22.71 | 11.7 | ng | 760081 | 6 | 23.30 | 1295710 | 20.0 |